

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-80 (Canceled).

81. (Currently Amended) A medical treatment device comprising:

a single treatment unit configured to administer a medical treatment to a patient, the treatment unit including user-accessible controls configured to permit control of the administration of the medical treatment and indicators configured to show status information relating to the medical treatment, the treatment unit having a programmable processor;

a programmable monitor unit with at least one display and at least one control configured to permit the selection of information to be shown on the display, the programmable monitor unit further having a memory for storing executable instructions thereon; the monitor unit being configured to process treatment data from the treatment unit responsively to the executable instructions stored in its memory,

the monitor unit being positioned adjacent the treatment unit such that a single user has simultaneous physical access to the treatment unit controls and indicators and the monitor unit controls and display; and

a one-way communication mechanism operatively connecting the treatment unit to the monitor unit such that the monitor unit is prevented from sending signals to the

treatment unit at all times during operation of the medical treatment device and such that the monitor unit receives data from the treatment unit,

the monitor unit being configured to output at least data relating to a status of the medical treatment being administered by the treatment unit;

the monitor unit being configured to receive changes to instructions stored in the memory from a remote device by which the monitor unit's function is modified;

the monitor unit being configured to process the treatment data from the single treatment unit, exclusively.

82. (Previously Presented) The device of claim 81, wherein the treatment unit and the monitor unit are connected to a common control panel with inputs and outputs, each connected such that any signals from the monitor unit are prevented from being transmitted to the treatment unit.

83. (Previously Presented) The device of claim 82, wherein the treatment unit, the monitor unit, and the control panel are located within a common housing.

84. (Previously Presented) The device of claim 81, wherein the monitor unit is configured to output on the display at least one of a time-series of sensor signals received over the one-way communication mechanism, a graphical representation of sensor signals received over the one-way communication mechanism, maximum and minimum sensor signal values received over the one-way communication mechanism, text adding information to information received over the one-way communication

mechanism, and troubleshooting information responsive to information received over the one-way communication mechanism.

85. (Previously Presented) The device of claim 81, wherein signals from the monitor unit are physically prevented from being transmitted to the treatment unit.

86. (Previously Presented) The device of claim 81, wherein the one-way communication mechanism lacks the ability to transmit signals to the treatment unit.

87. (Previously Presented) The device of claim 81, wherein the monitor unit and treatment unit are configured to be located adjacent the patient being treated.

88. (Previously Presented) The device of claim 81, wherein the monitor unit at least one control includes multiple controls and the display includes a graphical display.

89. (Previously Presented) The device of claim 81, wherein the one-way communication mechanism is an opto-isolator that only permits signals to be transmitted from the treatment unit to the monitor unit.

90. (Currently Amended) A medical treatment device comprising:
a treatment unit configured to administer a medical treatment to a patient, the treatment unit including user-accessible controls configured to permit the control of the administration of the medical treatment and indicators configured to show status information relating to the medical treatment, the treatment unit having a memory and a

programmable processor configured to execute software instructions stored in the memory;

a programmable monitor unit with at least one display and at least one control configured to permit the selection of information to be shown on the display, the programmable monitor unit further having a memory for storing executable instructions thereon; the monitor unit being configured to process treatment data from the treatment unit responsively to the executable instructions stored in its memory; and

a one-way communication mechanism ~~connecting~~ configured to provide a dedicated connection for transmitting treatment data from the treatment unit to the monitor unit such that signals from the treatment unit are received by the monitor unit but such that signals from the monitor unit are permanently prevented from being received by the treatment unit,

the monitor unit being ~~configured to~~ dedicated exclusively to the treatment unit such that it receives treatment data exclusively from the treatment unit;

the monitor unit being configured to receive changes to instructions stored in the memory by a remote device by which the monitor unit's function is modified;

the treatment unit and ~~output~~ outputting at least data relating to a status of the medical treatment administered by the treatment unit.

91. (Previously Presented) The device of claim 90, wherein the treatment unit and the monitor unit are connected to a common control panel with inputs and outputs, each connected such that any signals from the monitor unit are prevented from being transmitted to the treatment unit.

92. (Previously Presented) The device of claim 90, wherein the monitor unit is configured to output on the display at least one of a time-series of sensor signals received over the one-way communication mechanism, a graphical representation of sensor signals received over the one-way communication mechanism, maximum and minimum sensor signal values received over the one-way communication mechanism, text adding information to information received over the one-way communication mechanism, and troubleshooting information responsive to information received over the one-way communication mechanism.

93. (Previously Presented) The device of claim 90, wherein signals from the monitor unit are physically prevented from being transmitted to the treatment unit.

94. (Previously Presented) The device of claim 90, wherein the one-way communication mechanism lacks the ability to transmit signals to the treatment unit.

95. (Previously Presented) The device of claim 90, wherein the monitor unit and treatment unit are configured to be located adjacent the patient being treated.

96. (Previously Presented) The device of claim 90, wherein the one-way communication mechanism is an opto-isolator which only permits signals to be transmitted from the treatment unit to the monitor unit.

97. (Currently Amended) A medical treatment device comprising:

a single treatment module configured to administer a medical treatment to a patient, the treatment module including at least one user-accessible control which enables control of administration of the medical treatment, the treatment module having a programmable processor configured to execute software instructions stored in a memory.;
and

a programmable-dedicated monitoring module having a memory for storing executable instructions thereon; the monitoring module being configured to process treatment data from the treatment unit responsively to the executable instructions stored in its memory and further being configured to receive the treatment data exclusively from the treatment module and to output at least data relating to a status of the medical treatment being administered,

the monitoring module being signally connected to the treatment module exclusively so as to enable data transfer from the treatment module to the monitoring module, and

the monitoring module being operatively isolated from the treatment module such that signals from the monitoring module are physically prevented from being transmitted to the treatment module; the monitoring module being configured to receive treatment data exclusively from the single treatment module;

the monitoring module being configured to receive changes to instructions stored in the memory by a remote device by which the monitor module's function is modified.

98. (Previously Presented) The device of claim 97, wherein the monitoring module is signally connected to the treatment module by a communication device

configured to permit signals to only travel from the treatment module to the monitoring module at all times.

99. (Previously Presented) The device of claim 97, wherein the monitoring module is signally connected to the treatment module by an opto-isolator which only permits signals to travel from the treatment module to the monitoring module at all times.

100. (Withdrawn) The device of claim 97, wherein the treatment module includes a transmit-only device, the monitoring module includes a receiving-only device, and the treatment module is signally connected to the monitoring module by a communication link between the transmit-only device and the receiving-only device.

101. (Previously Presented) The device of claim 97, wherein the treatment module is incapable of receiving signals from the monitoring module during operation of the medical treatment device.

102. (Previously Presented) The device of claim 97, wherein the monitoring module is incapable of sending signals to the treatment module during operation of the medical treatment device.

103. (Withdrawn) The device of claim 97, wherein the treatment module has a transmitter without a corresponding receiver, the monitoring module has a receiver, and the monitoring module is connected to the treatment module by way of a signal

connection between the treatment module transmitter and the monitoring module receiver.

104. (Withdrawn) The device of claim 103, wherein the transmitter is an optical emitter or an RF transmitter.

105. (Previously Presented) The device of claim 97, wherein the treatment and monitoring modules are connected to a common control panel with inputs and outputs, each connected such that the monitoring module is operatively isolated from the treatment module so as to prevent the monitoring module from sending signals to the treatment module at all times.

106. (Previously Presented) The device of claim 97, wherein the monitoring module includes at least one display and at least one control configured to permit the selection of information to be shown on the display.

107. (Previously Presented) The device of claim 106, wherein the monitoring module is positioned adjacent to the treatment module such that a single user has simultaneous access to the at least one control of the treatment unit and the at least one display and at least one control of the monitoring module.

108. (Previously Presented) The device of claim 97, wherein the treatment module is a dialysis machine and the medical treatment is a dialysis treatment of blood from a patient.

109. (Previously Presented) The device of claim 97, wherein the treatment module is configured to operate as a stand-alone device without any input from said monitoring module.

110. (Previously Presented) The device of claim 97, wherein the treatment module includes at least one sensor for monitoring the administered medical treatment and the data signals sent to the monitoring module include a measurement by the at least one sensor.

111. (Previously Presented) The device of claim 97, wherein the treatment module includes at least one sensor configured to measure at least one of patient blood pressure, blood temperature, red blood cell count, volume of blood removed from the patient, and volume of fluid returned to the patient.

112. (New) The device of claim 81, wherein the monitor unit is further configured to transfer treatment information to a remote device.

113. (New) The device of claim 112, wherein the monitor unit is further configured to permit it to be controlled by the remote device.

114. (New) The device of claim 90, wherein the monitor unit is further configured to transfer treatment information to a remote device.

115. (New) The device of claim 114, wherein the monitor unit is further configured to permit it to be controlled by the remote device.

116. (New) The device of claim 97, wherein the monitoring module is further configured to transfer treatment information to a remote device.

117. (New) The device of claim 116, wherein the monitoring module is further configured to permit it to be controlled by the remote device.